

Ngoc Tuong Le

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AI ENGINEER (INTERN)

I am a fresh graduate Data Science student focusing strongly on **machine learning and deep learning for computer vision and natural language processing**. I can research, develop, and optimize AI models proven by scientific publications, as well as the ability to process and analyze data. I seek an AI Engineer position to develop my skills further and build a successful career.

EDUCATION

University of Science - VNUHCM

Bachelor in Data Science

District 5, Ho Chi Minh City, Vietnam

Oct 2020 – Oct 2024

- **Courses:** Probability and Statistics, Linear Algebra, Calculus, Data Structures, OOP, Software Engineer, Database, Data Science, Data Mining, Machine Learning, Big Data, Computer Vision Thesis.
- **GPA:** 3.71.

ACHIEVEMENTS

- Publication** : Submitted the paper “CS-MAT: Cross-Shaped Window Mask-Aware Transformer for Large Mask Image Inpainting” to the [2024 17th International Conference on Machine Vision \(ICMV 2024\)](#).
- Award** : Outstanding Student Science and Technology Research Award at HCMC University of Science
- Certificates** : TOEIC Listening and Reading (Score: 845), Speaking and Writing (Score: 270).
- Scholarship** : Recipient of academic achievement scholarships for several semesters.

PROJECTS

Thesis (Grade: 4/4) - Image Inpainting using generative network combined with Transformer Oct 2023 – Aug 2024
Technologies Used: PyTorch, NumPy, Matplotlib, OpenCV, scikit-image, scikit-learn, Linux, Git, LaTeX [GitHub](#)

- Team size: 2. My responsibilities included research, architecture design, implementation, training, and experiments.
- Developed an innovative approach to reconstruct large missing image areas using a novel Transformer-based generative model.
- Built, trained, and optimized the model on a facial dataset ([CelebA-HQ](#)), achieving superior performance compared to several state-of-the-art techniques.
- [Application demo video](#) and [Demo App](#). Had the research paper accepted at ICMV 2024, an international conference.

Developing a Text Generation App by fine-tuning GPT Aug 2023 – Oct 2023
Technologies Used: PyTorch, NumPy, Pandas, Matplotlib, Hugging Face Transformers, Streamlit, LaTeX [GitHub](#)

- Team size: 3. I was responsible for researching architectures and fine-tuning the model.
- Researched Transformer and GPT-2 architectures, fine-tuned a pre-trained GPT-2 model on the [wikitext-2](#) dataset, and conducted evaluations.
- Developed and demonstrated a web application for text generation. The model can be found [here](#).

Developing a Machine Learning Pipeline using TensorFlow Extended (TFX) Feb 2023 – May 2023
Technologies Used: Python, TensorFlow, TFX, Linux, Docker, LaTeX, Trello [GitHub](#)

- Team size: 4. I was responsible for researching pipeline components and developing the ML pipeline.
- Researched a sequence of components that implement an ML pipeline, and libraries of tfx.
- Developed a TFX pipeline for a penguin classification model, including Docker-based model serving.

Additional Projects such as [Analyzing High School Exam Scores](#), [Analyzing Anime Dataset](#),... helped me improve my skills, including data wrangling, exploratory data analysis, modeling, and visualization.

SKILLS AND LANGUAGE

- Programming** : Python (NumPy, Pandas, Matplotlib, SciPy, OpenCV...), C/C++, and SQL/MySQL.
- Libraries** : PyTorch, TensorFlow, PySpark, and sklearn.
- Tools** : Git, Spark, Hadoop, Docker, and cloud (Azure AI/ML).
- Data/AI skills** : Developing, training, and deploying machine learning models; data wrangling, EDA, and visualization.
- Deep Learning** : Knowledge about CNN, GAN, RNN, LSTM, Transformer, Reinforcement Learning,...
- Soft Skills** : Independent research, teamwork, persistence, dedication, and attention to detail.
- Language** : Intermediate proficiency in English; capable of reading and understanding technical documents.